PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE UPGRADE OF THE EXISTING ACCESSIBLE PEDESTRIAN SIGNALS (APS) TO CURRENT STANDARDS FOR ALL LEGS, THE INSTALLATION OF ADA COMPLIANT SIDEWALK RAMPS, CROSSWALKS AND NEW MICROLOOP PROBES FOR SB MD 45 AT THE INTERSECTION OF MD 45 (YORK ROAD) AND FAIRMOUNT AVENUE IN TOWSON, MARYLAND. MD 45 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA FIVE-PHASE, FULLY-TRAFFIC-ACTUATED MODE. EXCLUSIVE SOUTHBOUND LEFT TURNS, THE ALTERNATIVE PEDESTRIAN PHASE AND PREEMPTION FOR MD 45 WILL REMAIN.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET AND ASSOCIATED EQUIPMENT WILL REMAIN.

EX. U/G //C NORTH TO WEST ROAD

APS WILL FUNCTION AS FOLLOWS:

TO CROSS MD 45 (YORK ROAD):

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS YORK AT FAIRMOUNT, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

TO CROSS FAIRMOUNT:

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS FAIRMOUNT AT YORK, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- TO CROSS SCHOOL ENTRANCE:

NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

C | ELECTRICAL CABLE - 2 D | CONDUCTOR (NO. 14 AWG)

H-USE EXISTING WIRE

ELW - EXISTING LOOP WIRE

EPS - EXISTING POWER SERVICE

EML EXISTING MICROLOOP PROBE SET

PML -PROPOSED MICROLOOP PROBE SET

EXISTING GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH

F -MICROLOOP PROBE LEAD-IN CABLE

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS SCHOOL ENTRANCE AT YORK, WAIT".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

WIRING DIAGRAM

&&&_&&&

A,B,C,D,E,

THE CONTACT PERSONS FOR DISTRICT #4 ARE AS FOLLOWS:

Assistant District Engineer - Traffic Phone: 410-229-2381

Mr. Michael Pasquariello District Utility Engineer Phone: 410-229-2421

Mr. Andre Futrell Assistant <u>District</u> Engineer - Maintenance Phone: 410-229-2361

OFFICE OF TRAFFIC AND SAFETY:

Mr. Richard L. Daff Sr. Chief, Traffic Operations Division Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations Division 410-787-7630

. ∰ EML

EML

BG&E POLE NO.72877

EX. O/H I/C SOUTH TO BOSLEY AVENUE

Mr. Edward Rodenhizer Chief Signal Operations Phone: 410-787-7650

Mr.Eugene Balley Chief Sign Operations 410-787-7670

The Power Company is: BG&E CO. 7317 Parkway Dr. South Hanover, MD Phone: 410-859-9062

> PROPOSED SIGNAL EQUIPMENT AND PAVEMENT MARKING LAYOUT - I"=20'

PHASE 4 AND B ALT. CHANGE R R +R +R +R

PHASE 2 AND 5

PHASE 5 CHANGE

PHASE 2 AND 6

PHASE 4 AND 8

PRE-EMPTION 1

PRE-EMPTION 2

FLASHING

OPERATION

PEDESTRIAN CLEARANCE

PHASE 2 AND 6 CHANGE

PHASE 4 AND 8 CHANGE

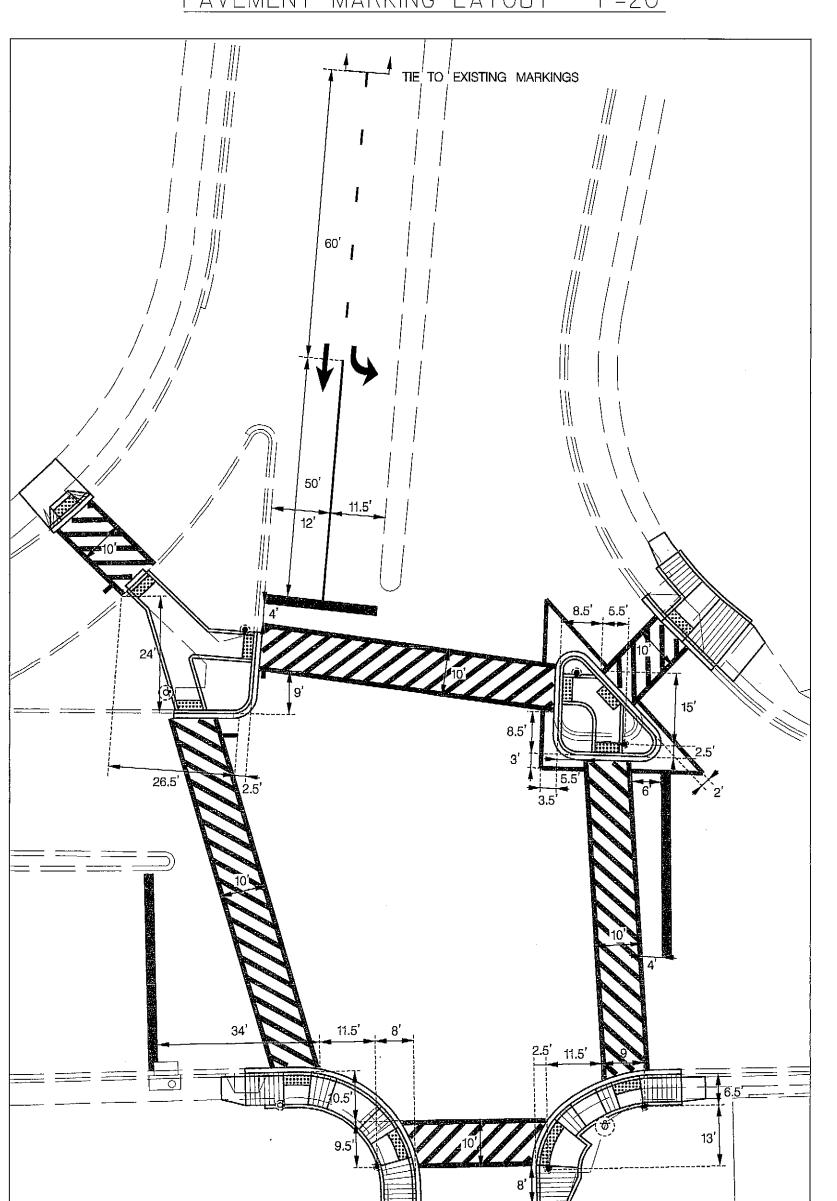
PEDESTRIAN CLEARANCE

PRE-EMPTION 1 CHANGE

PRE-EMPTION 2 CHANGE

PHASE 4 AND 8 ALT.

R > G R > G



TOD NO: XY125-06 SHA NO: BA087B54 MD 45 @ Fairmount Avenue

DW DW DW DW DW DW DW

DW

DW

PHASE CHART

R | R | +G | +G | G | G | R | R | R | R | R | WK | DW | DW | DW | DW | DW | DW

| R | R | +R | +R | R | R | G | G | G | G | DW | DW | DW | FL/DW | FL/DW | FL/DW | FL/DW

Y | Y | R | R | R | R | DW | DW | DW

R | R | +Y | +Y | +Y | G | G | R | R | R | R | R | WK | DW | DW | WK

| R | R | 4R | 4R | 4R | R | R | R | Y | Y | Y | Y | DW | DW | DW | DW

R | R | +G | +G | +G | G | G | R | R | R | R | R | DW | DW | DW

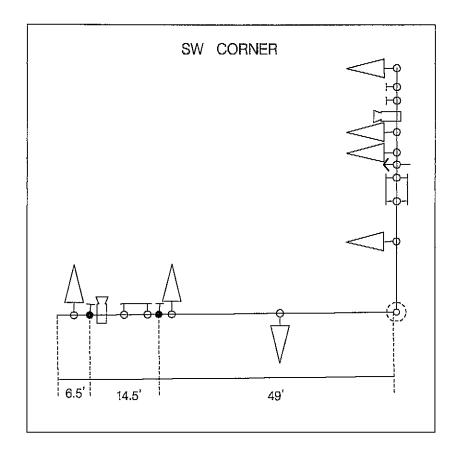
G G +R +R +R G G R R R R R R FL/DW FL/DW FL/DW FL/DW DW

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

MAST ARM DETAILS - I"=20'

DW DW DW

DW DW DW



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 45 (YORK ROAD) AT FAIRMOUNT AVENUE

TOWSON, MARYLAND

GENERAL INFORMATION SHEET (1 OF 2)

1	·		
SCALE NONE	DATE0	05/2012 C	ONTRACT NO. XY1255185
DESIGNED BY	KXT OF STV	COUNTY_	BALTIMORE
DRAWN BY	KXT OF STV	LOGMILE	03004502.82
CHECKED BY	MTS OF STV/WILL	TIMS NO.	L052
	, -	TOD NO.	
TS NO.3981E-GI	DRAWING SG - 02	OF 03	SHEET NO. 02 OF 03

STV Incorporated 7125 Ambassador Road, Suite 200 Baltimore, MD 21244 www.stvinc.com

> PLOTTED: Monday, April 30, 2012 AT 08:03 AM FILE: I:\PROJECTS\4014255\4014255_0166\Drawings\TRA\pSG-N000_MD45_Falrmount.dgn